

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### In re Patent Application Nos:

12/046,336  
12/717,391  
12/906,285  
09/275,276  
11/182,809  
11/208,882  
11/208,883  
10/767,265  
11/261,762  
11/424,610  
10/750,949  
10/931,079  
10/931,191  
11/680,684  
12/120,787  
12/199,024  
12/047,408  
13/027,009

Customer No.: 30678

### Revocation and Power of Attorney

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

All previous powers of attorney and authorizations of agent are hereby revoked, and the undersigned hereby appoints the attorneys and agents of Connolly Bove Lodge & Hutz LLP associated with U.S. Patent and Trademark Office ("PTO") Customer Number 30678 to prosecute these applications and any U.S., foreign, or international applications under the Patent Cooperation Treaty based on them and to transact all business in the PTO connected therewith, and to receive all communications from the PTO, including the patent documents. Further details about each application are found in the Appendix to this paper. The authority under this Power of Attorney of each person listed under the aforementioned PTO Customer Number shall

automatically terminate and be revoked upon such person ceasing to be associated with Connolly Bove Lodge & Hutz LLP.

*Designation of Correspondence Address*

Please associate these applications with PTO Customer Number 30678 and send all notices, official letters, documents, communications, and other correspondence regarding these applications to the address:

Connolly Bove Lodge & Hutz LLP  
1875 Eye Street NW, Suite 1100  
Washington, DC 20006

or to the address currently associated with PTO Customer Number 30678.

*Certificate Under 37 C.F.R. § 3.73(b)*

Intellectual Ventures I LLC is the assignee of the entire right, title, and interest in these patents and applications by virtue of the chains of assignment shown in the attached Appendix, which are recorded in the records of the PTO. To the best of the undersigned's knowledge and belief, the titles are in the name of said assignee. The undersigned, whose title is supplied below, is empowered to sign this certificate on behalf of Intellectual Ventures I LLC.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

David Dutcher

Title: \_\_\_\_\_

Authorized Person for Intellectual Ventures I LLC

**APPENDIX: DETAILS OF LISTED APPLICATIONS**

**Application No.:** 12/046,336

**Confirmation No.:** 1968

**Patent No.:** 7,890,899

**Filing Date:** March 11, 2008

**First Named Inventor:** Laurence H. Cooke

**Title:** Variable Clocked Scan Test Improvements

**Attorney Docket No.:** 27592-01022-US3

**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.

Executed: July 15, 2005

Recorded: July 18, 2005 at Reel 016790/Frame 0990

- 2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

- 3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 11/182,809

**Confirmation No.:** 8379

**Patent No.:** 7,353,470

**Filing Date:** July 18, 2005

**First Named Inventor:** Laurence H. Cooke

**Title:** Variable Clocked Scan Test Improvements

**Attorney Docket No.:** 27592-01022-US2

**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.

Executed: July 15, 2005

Recorded: July 18, 2005 at Reel 016790/Frame 0990

- 2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

- 3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 12/717,391

**Confirmation No.:** 2688

**Patent No.:** TBD

**Filing Date:** March 4, 2010

**First Named Inventor:** Bulent Dervisoglu

**Title:** On-Chip Service Processor

**Attorney Docket No.:** 27592-01021-US6

**Chain of Title:**

1) Inventors to On-Chip Technologies, Inc.

Executed: January 29, 2004

Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 11/424,610

**Confirmation No.:** 4038

**Patent No.:** 7,836,371

**Filing Date:** June 16, 2006

**First Named Inventor:** Bulent Dervisoglu

**Title:** On-Chip Service Processor

**Attorney Docket No.:** 27592-01021-US6

**Chain of Title:**

1) Inventors to On-Chip Technologies, Inc.

Executed: January 29, 2004

Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 11/261,762  
**Confirmation No.:** 8919  
**Patent No.:** 7,080,301  
**Filing Date:** October 31, 2005  
**First Named Inventor:** Bulent Dervisoglu  
**Title:** On-Chip Service Processor  
**Attorney Docket No.:** 27592-01021-US4  
**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.  
Executed: January 29, 2004  
Recorded: January 30, 2004 at Reel 014948/Frame 0318
- 2) On-Chip Technologies, Inc. to OC Applications Research LLC  
Executed: March 13, 2008  
Recorded: April 4, 2008 at Reel 020753/Frame 0337
- 3) OC Applications Research LLC to Intellectual Ventures I LLC  
Executed: December 7, 2010  
Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 10/767,265  
**Confirmation No.:** 4852  
**Patent No.:** 6,964,001  
**Filing Date:** January 30, 2004  
**First Named Inventor:** Bulent Dervisoglu  
**Title:** On-Chip Service Processor  
**Attorney Docket No.:** 27592-01021-US3  
**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.  
Executed: January 29, 2004  
Recorded: January 30, 2004 at Reel 014948/Frame 0318
- 2) On-Chip Technologies, Inc. to OC Applications Research LLC  
Executed: March 13, 2008  
Recorded: April 4, 2008 at Reel 020753/Frame 0337
- 3) OC Applications Research LLC to Intellectual Ventures I LLC  
Executed: December 7, 2010  
Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 09/275,726

**Confirmation No.:** 1134

**Patent No.:** 6,687,865

**Filing Date:** March 24, 1999

**First Named Inventor:** Bulent Dervisoglu

**Title:** On-Chip Service Processor for Test and Debug of Integrated Circuits

**Attorney Docket No.:** 27592-01021-US2

**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.  
Executed: July 19, 1999 and July 24, 1999  
Recorded: August 2, 1999 at Reel 010135/Frame 0168
- 2) On-Chip Technologies, Inc. to OC Applications Research LLC  
Executed: March 13, 2008  
Recorded: April 4, 2008 at Reel 020753/Frame 0337
- 3) OC Applications Research LLC to Intellectual Ventures I LLC  
Executed: December 7, 2010  
Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 13/027,009

**Confirmation No.:** 5965

**Patent No.:** TBD

**Filing Date:** February 14, 2011

**First Named Inventor:** Bulent Dervisoglu

**Title:** On-Chip Service Processor

**Attorney Docket No.:** 27592-01021-US7

**Chain of Title:**

- 1) Inventors to On-Chip Technologies, Inc.  
Executed: January 29, 2004  
Recorded: January 30, 2004 at Reel 014948/Frame 0318
- 2) On-Chip Technologies, Inc. to OC Applications Research LLC  
Executed: March 13, 2008  
Recorded: February 14, 2011 at Reel 025805/Frame 0816
- 3) OC Applications Research LLC to Intellectual Ventures I LLC  
Executed: December 7, 2010  
Recorded: February 14, 2011 at Reel 025805/Frame 0853

**Application No.:** 11/208,882

**Confirmation No.:** 9831

**Patent No.:** 7,421,563

**Filing Date:** August 23, 2005

**First Named Inventor:** Laurence H. Cooke

**Title:** Hashing and Serial Decoding Techniques

**Attorney Docket No.:** 27592-01024-US1

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: August 22, 2005

Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 12/199,024

**Confirmation No.:** 5184

**Patent No.:** 7,818,538

**Filing Date:** August 27, 2008

**First Named Inventor:** Laurence H. Cooke

**Title:** Hashing and Serial Decoding Techniques

**Attorney Docket No.:** 27592-01024-US2

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: August 22, 2005

Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063



**Application No.:** 12/906,285

**Confirmation No.:** 9794

**Patent No.:** TBD

**Filing Date:** October 18, 2010

**First Named Inventor:** Laurence H. Cooke

**Title:** Hashing and Serial Decoding Techniques

**Attorney Docket No.:** 27592-01024-US3

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: August 22, 2005

Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: January 5, 2011 at Reel 025583/Frame 0802

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 11/208,883

**Confirmation No.:** 9834

**Patent No.:** 7,421,636

**Filing Date:** August 23, 2005

**First Named Inventor:** Laurence H. Cooke

**Title:** Scan String Segmentation for Digital Test Compression

**Attorney Docket No.:** 27592-01025-US1

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: August 22, 2005

Recorded: August 23, 2005 at Reel 016915/Frame 0359

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 12/120,787

**Confirmation No.:** 5660

**Patent No.:** 7,620,865

**Filing Date:** May 15, 2008

**First Named Inventor:** Laurence H. Cooke

**Title:** Scan String Segmentation for Digital Test Compression

**Attorney Docket No.:** 27592-01025-US2

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: August 22, 2005

Recorded: August 23, 2005 at Reel 016915/Frame 0359

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: January 5, 2011 at Reel 025583/Frame 0802

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 10/750,949

**Confirmation No.:** 2063

**Patent No.:** 7,197,681

**Filing Date:** January 5, 2004

**First Named Inventor:** Bulent Dervisoglu

**Title:** Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time

**Attorney Docket No.:** 27592-01020-US3

**Chain of Title:**

1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.

Executed: April 15, 2003

Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.

Executed: December 18, 2003

Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 10/931,079

**Confirmation No.:** 9004

**Patent No.:** 7,188,286

**Filing Date:** September 1, 2004

**First Named Inventor:** Bulent Dervisoglu

**Title:** Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time

**Attorney Docket No.:** 27592-01020-US4

**Chain of Title:**

1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.

Executed: April 15, 2003

Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.

Executed: December 18, 2003

Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures 1 LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 10/931,191

**Confirmation No.:** 1641

**Patent No.:** 7,200,784

**Filing Date:** September 1, 2004

**First Named Inventor:** Bulent Dervisoglu

**Title:** Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time

**Attorney Docket No.:** 27592-01020-US5

**Chain of Title:**

1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.

Executed: April 15, 2003

Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.

Executed: December 18, 2003

Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 11/680,684

**Confirmation No.:** 5701

**Patent No.:** 7,752,515

**Filing Date:** March 1, 2007

**First Named Inventor:** Bulent Dervisoglu

**Title:** Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time

**Attorney Docket No.:** 27592-01020-US6

**Chain of Title:**

1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.

Executed: April 15, 2003

Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.

Executed: December 18, 2003

Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

**Application No.:** 12/047,408

**Confirmation No.:** 2972

**Patent No.:** RE41,187

**Filing Date:** March 13, 2008

**First Named Inventor:** Laurence H. Cooke

**Title:** Accelerated Scan Circuitry and Method

**Attorney Docket No.:** 27592-01020-US7

**Chain of Title:**

1) Inventor to On-Chip Technologies, Inc.

Executed: April 15, 2003

Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) On-Chip Technologies, Inc. to OC Applications Research LLC

Executed: March 13, 2008

Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC

Executed: December 7, 2010

Recorded: December 7, 2010 at Reel 025467/Frame 0063

DECLARATION REGARDING AUTHORITY TO SIGN  
ON BEHALF OF A LEGAL ENTITY  
37 C.F.R. 3.73(b)(2)(ii)

I, David Dutcher (whose title is supplied below), hereby declare that I am authorized to sign the  
Revocation and Power of Attorney on behalf of Intellectual Ventures I LLC.

  
\_\_\_\_\_  
David Dutcher

Authorized Person for Intellectual Ventures I LLC

3/11/11  
\_\_\_\_\_  
Date